

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
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PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference USYS-0148/03-043/		Date of mailing (day/month/year) 21 SEP 2004
FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/US04/08498	International filing date (day/month/year) 19 March 2004 (19.03.2004)	Priority date (day/month/year) 19 March 2003 (19.03.2003)
International Patent Classification (IPC) or both national classification and IPC IPC(7): G06F 17/30 and US Cl.: 707/10, 100, 101, 104.1; 345/700		
Applicant UNISYS CORPORATION		

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer John E. Breene Telephone No. 703-303-3900
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/08498

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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Box No. V Reasoned statement under Rule 43 *bis.*1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims NONE YES

Claims 1 - 32 NO

Inventive step (IS)

Claims NONE YES

Claims 1 - 32 NO

Industrial applicability (IA)

Claims NONE YES

Claims 1 - 32 NO

2. Citations and explanations:

Please See Continuation Sheet

WRITTEN OPINION OF THE
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

V. 2. Citations and Explanations:

Claim 1, 2, 3, 16, 17, 18, 19 and 32 do not meet novelty under PCT Article 33(2) as being anticipated by U.S. Patent U.S. Patent 6,668,254 issued to Ken Matson et al ("Matson").

Regarding claims 1 and 17, Matson teaches a method for use in consolidating computing devices, comprising:
storing in at least two data set files containing information indicative of the characteristics of at least a first computing device wherein the data sets describe the information in a markup language (Fig.2 and column 5, lines 48 - 58);

loading the at least two data sets into a first relational database so that the at least two data sets can be compared to each other (column 2, lines 5 - 10).

Regarding claims 2 and 18, Matson teaches wherein one of the at least two data sets contains information indicative of a second computing device (column 6, lines 10 - 21 and column 7, lines 35 - 41).

Regarding claims 3 and 19, Matson teaches wherein the markup language comprises XML (column 5, lines 16 - 26).

Regarding claims 16 and 32, Matson teaches a second table related to a database name table wherein the second table is a table comprising at least one of: trigger, procedure, database role, function, or a procedure (column 7, lines 27 - 30).

Claims 4 - 14 and 20 - 30 do not meet an inventive step under PCT Article 33(3) as being obvious over Matson in view of U.S. Pub. Number 2002/0059259 issued to Curt Lee Cotner et al ("Cotner").

Regarding claims 4 and 20, Matson does not explicitly teach wherein the information indicative of the characteristics of a computing device comprises information indicative of system parameters.

Cotner teaches wherein the information indicative of the characteristics of a computing device comprises information indicative of system parameters (page 2, [0025]).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Cotner with Matson wherein the parameters enable the customization of the stored procedures. The stored procedures comprise pre-defined functions that access the user and system tables.

Regarding claims 5 and 21, Cotner teaches wherein the system parameters comprise at least one of: the number of processors, available processors, processor level, devices, disk drive characteristics, disk drive capacity, system name, page size, operating system version, operating system build, and network connectivity (page 2, [0019]).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claims 6 and 22, Cotner teaches wherein the information indicative of the characteristics of a computing device comprises information indicative of executable process parameters (page 2, [0025]).

Regarding claims 7 and 23, Cotner teaches the executable process parameters comprise at least one of: CPU utilization, memory utilization, active processes, active process dependencies, processor usage, memory usage, process creation time, process ID, process owner, process handles, process version, dependency version, process timestamp, process description, and dependency description (page 1, [0008] and [0014]).

Regarding claims 8 and 24, Cotner teaches the first relational database comprises a system information table for maintaining the system information for at least one computing device (page 3, [0041]).

Regarding claims 9 and 25, Cotner teaches the first relational database comprises a process table related to the system information table, wherein the process table maintains information related to executable processes on a computing device (page 3, [0041]).

Regarding claims 10 and 26, Cotner teaches the first relational database comprises a module table related to the system information table, wherein the module table maintains information related to modules on a computing device that are used by a process (page 2, [0016]).

Regarding claims 11 and 27, Cotner teaches the information indicative of the characteristics of a computing device comprises information indicative of computing device database definition parameters (page 2, [0022]).

Regarding claims 12 and 28, Cotner teaches the computing device database definition parameters comprise at least one of: database names, roles, users, aliases, defaults, rules, functions, user defined datatypes, user messages, tables, views, indexes, extended procedures, stored procedures, and triggers (page 2, [0024] - [0025]).

Regarding claims 13 and 29, Cotner teaches the first relational database comprises a database name table for maintaining the names of computing device database names (page 3, [0041]).

Regarding claims 14 and 30, Cotner teaches the first relational database comprises a table table related to the database name table, wherein the table table maintains computing device database table names (page 3, [0041]).

Claims 15 and 31 do not meet an inventive step under PCT Article 33(3) as being obvious over Matson in view of U.S. Pub. Number 2003/0030656 issued to Darwin Ang et al ("Ang").

Regarding claims 15 and 31, Matson does not explicitly teach the first relational database comprises a column table related to the table table, wherein the column table maintains computing device database column names.

Ang teaches the first relational database comprises a column table related to the table table, wherein the column table maintains computing device database column names (page 4, [0041] and page 6, [0060]).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Ang with Matson to achieve the overall structure of a table that is suited for viewing in a portable computing device.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.